Elsoe Residence Garage Roof Replacement File Number: 12-115762-LO



PROJECT NARRATIVE FOR CRITICAL AREAS LAND USE PERMIT

Elsoe residence 2238 West Lake Sammamish Parkway S.E. Bellevue, WA 98008 King County Parcel # 925390-0406 & -0407

This request is to modify the toe-of-slope setback for an existing accessory structure to a single family residence. The building is currently located within the steep slope area. This modification will bring the structure into a legally non-conforming status and is for the purpose of allowing the existing flat roof to be replaced with a new pitched roof to match the new SFR.

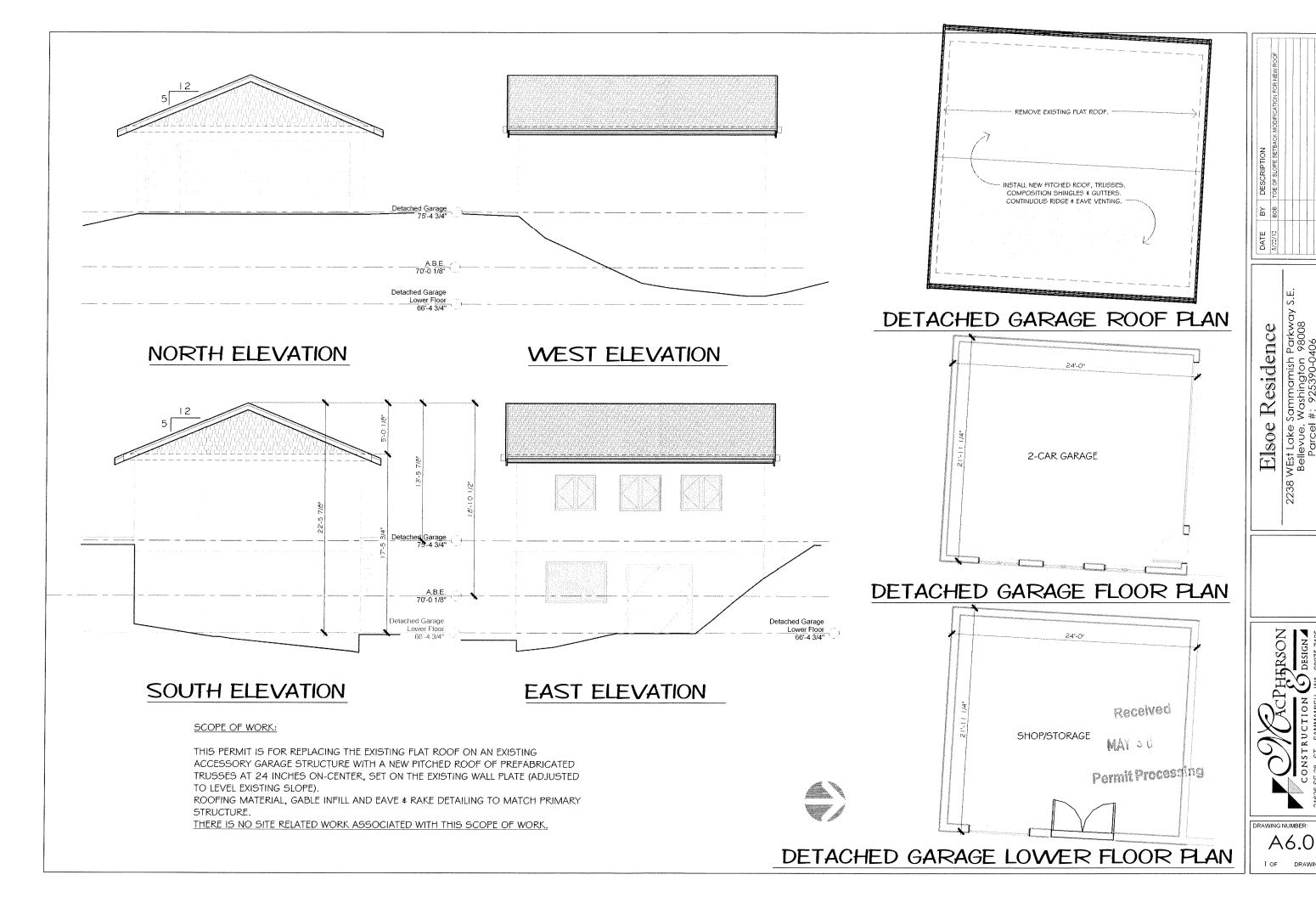
This project is a minor change to a project currently under construction. The new single family residence is currently being built on this waterfront site. There is an existing detached two-car garage which will remain, located landward from the new house. This structure is sited on the toe of a sloped area that meets the definition of a steep slope. This structure dates from the 1950's or 1960's. The slope has been modified over the years and there is city-owned stormwater vault located within the sloped area near the building. The slope is and has been stable and shows no signs of any conditions that would impact, or be impacted by this work in any way.

This proposal is to replace the existing flat roof structure with a new pitched roof atop the existing building. There will be no impact to the steep slope area as the work will be confined to the existing building footprint. This proposal is purely cosmetic in nature and will enhance the visual character of the neighborhood by making the garage structure compatible with the design of the new house currently under construction. THERE IS NO SITE RELATED WORK ASSOCIATED WITH THIS MODIFICATION PROPOSAL.

Received

MAY 3 0 2012

Permit Processing



EXISTING BUILDING SUBJECT TO MODIFICATION OF TOE OF SLOPE SETBACK. NO SITE RELATED WORK IS PROPOSED AS A PART OF THIS MODIFICATION REQUEST.

JURISDICTIONAL DATA:

LEAD AGENCY:

Department of Planning & Community Development 450 II0th. Avenue N.E. Bellevue, Washington P.O. Box 90012 Bellevue, Washington 98009-9012 (425) 452-6864 Fax: (425) 452-5225

BLDG. HEIGHT TABULATION

	EXIST.		
POINT	GRADE	COUNT	
Α	75.40	1	
В	66.40	1	
С	65.00	1	
D	65.50	1	
E	66.40	1	
F	67.00	1	
G	68.20	1	
Н	75.40	1	
1	75.40	1	
J	75.40	1	
AVG. EXIST.			
GRADE	700.10	10 70.0	1
W-11-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1			

BUILDING HEIGHT:

- AVERAGE EXISTING GRADE = 700.01/10 = 70.01'
- GARAGE FLOOR ELEVATION = 75 40'
- RIDGE ELEVATION: 75.40 + 13.50 = 88.90'
- ALLOWABLE BUILDING HEIGHT FROM AVERAGE EXISTING GRADE: 70.01 + 35.00 = 105.01 105.01' IS GREATER THAN 88.90' OK (SEE DRAWING A6.0 FOR COMPLIANCE DIAGRAM)

OT COVERAGE:

GROSS LOT AREA: 18,721 SF LESS CRITICAL AREAS: (2,548 SF) 100 YEAR FLOOD PLAIN STEEP SLOPES (1,452 SF)

14,721 SF

NET LOT AREA:

ALLOWABLE LOT COVERAGE @ 35% OF NET LOT AREA: 5,152 SF

PROPOSED IMPROVEMENTS

FOOTPRINT OF NEW RESIDENCE: (INCL. COVERED PORCHES & DECKS) EXISTING GARAGE TO REMAIN: 508 SF EXISTING CABANA TO REMAIN: 303 SF TOTAL PROPOSED LOT COVERAGE: 4,458 SF LESS THAN 5,152 OK 4,458 / 14,721 = 30,28%

MPERVIOUS SURFACE

ALLOWED IMPERVIOUS AREA @ 50% OF GROSS LOT AREA: 9,361 SF PROPOSED IMPROVEMENTS

FOOTPRINT OF NEW RESIDENCE: (ROOF DRIPLINE, INCLUDING COVERED PORCHES & DECKS)	4,007 SF
EXISTING GARAGE TO REMAIN:	658 SF
EXISTING CABANA TO REMAIN:	413 SF
PERVIOUS DECKS, PATIOS & WALKS:	250 SF
DRIVEWAY:	3,129 SF
PROPOSED IMPERVIOUS SURFACES: (INCLUDES BUILIDNG ROOFLINE, DRIVEWAY, WALKWAYS & DECKS)	8,457 SF

LESS THAN 9,361 OK 8,457 / 18,721 = 45.17%

PROJECT DATA:

PARCEL #: 925390-0406 SITE ADDRESS:

2238 West Lake Sammamish Parkway SE Bellevue, WA 98008 PROPERTY OWNER: Steve & Shari Elsoe ARCHITECT

MACPHERSON CONSTRUCTION ¢ DESIGN Attn: Robert H. Sorensen AIA 21626 €5 20th Street Sammanish NA 98075-7125 Ph: (425) 391-3333 Fax: (425) 557-2841 **\$ CONTRACTOR**

PLAN

Scale: 1'' = 40' - 0''

QUANTUM CONSULTING ENGINEERS
Jack Niggins, P.E., S.E.
1511 Third Avenue, Suite 323
Scattle, MA 98101
Ph: (206) 957-3900
Fax: (206) 967-3901 ENGINEER:

LEGAL DESCRIPTION

LOTS A AND B OF KING COUNTY SHORT PLAT NO. 477130, RECORDED UNDER RECORDING NUMBER 7708100914, BEING A PORTION OF LOT 77, MEONINA BEACH, ACCORDING TO THE UNRECORDED PLAT THEREOF IN THE SOUTHWEST QUARTER OF SECTION 1, TOWNSHIP 24 NORTH, RANGE 5 EAST, WILLAMETTE MERIDIAN, IN KING COUNTY, WASHINGTON.

LOT ZONING

LOT ZONING: R 3.5 LOT SIZE: 18,721 S.F. (.43 Acre) LOT SLOPE: 19.46%

ALLOWED LOT COVERAGE: ALLOWED IMPERVIOUS AREA: 50% MAX

35 FEET FROM AVERAGE EXISTING GRADE, 30 FEET FROM AVERAGE FINISH GRADE TO MID-POINT OF SLOPE (LUG 20 50 012 B) 20 FEET BASE BUILDING HEIGHT: SETBACK - FRONT YARD:

SETBACK - REAR YARD: SETBACK - SIDE YARDS:

GHORELINE SETBACK) 50 FEET FROM CHIMM (LUC 20 255.080.0)

5 FEET MIN, TOTAL BOTH SIDES OF 15 FEET MIN, (LUC 20 20 100) EXCEPT FOR MINOR BUILDING ELEMENTS, EAVES, ETC. UP TO 18" (LUC 20.20.025.C)

Permit Processing

Parkwa 98008 0 ence esid M SOE WES Bel

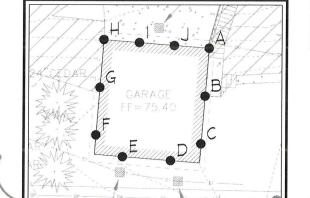
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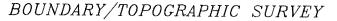
HFRSON DESIGN

RAWING NUMBER

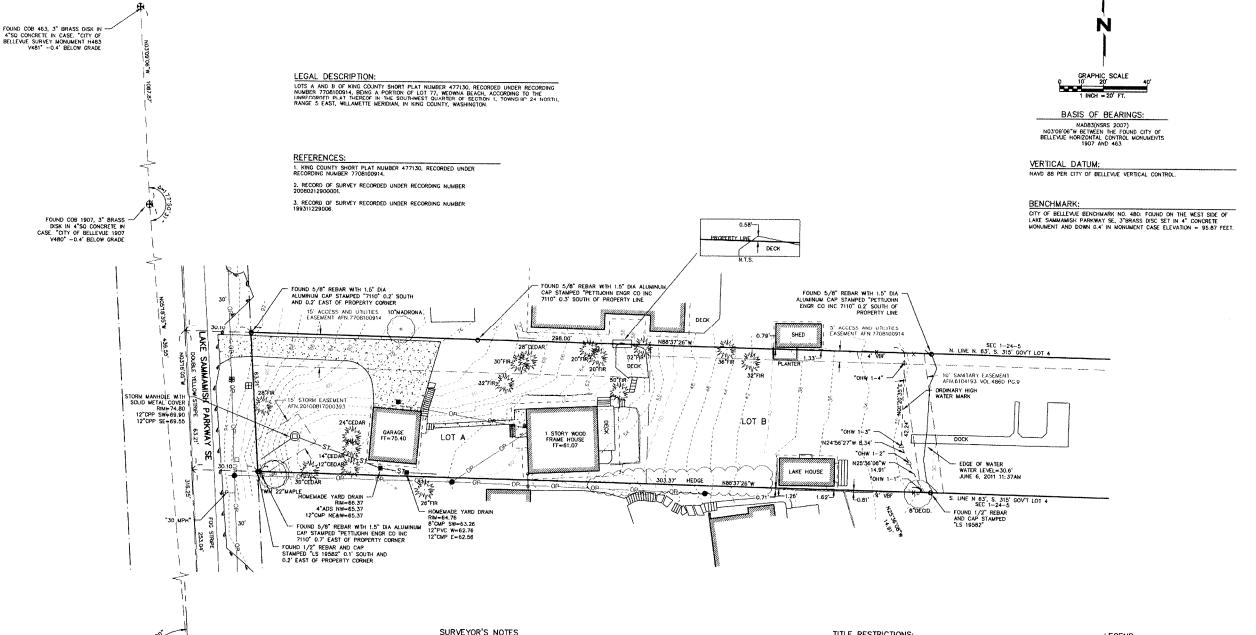
DRAWING:







A PORTION OF GOV'T LOT 4 (THE SE. 1/4 OF THE SW. 1/4) SECTION 1, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON



N88'37'26"W PER REF.2

SOUTH LINE OF SECTION 1 AND GOVERNMENT LOT 4

FOUND 3" BRASS DISK SURFACE MONUMENT WITH "X" AT CENTERLINE LAKE SAMMAMISH PARKWAY SE 0.17" SOUTH OF SECTION LINE

SURVETORS TWILES

1. ALL TILE INFORMATION SHOWN ON THIS MAP HAS BEEN EXTRACTED FROM CHICAGO TITLE INSURANCE COMPANY A L.T.A.

COMMINENT ORDER NUMBER 132403D DATED MAY 20, 2011. IN PREPARING THIS MAP, D.R. STRONG CONSULTING ENGINEERS IN

RICH HAS CONDUCTED ON INDEPENDENT THIS ESARCH NOR IS D.R. STRONG CONSULTING ENGINEERS INC. AWARE OF ANY TITLE

CHICAGO TITLE INSURANCE TRANSPORT HAT HOS SHOWN ON THE MAP AND DISCLOSED BY REFERENCED

CHICAGO TITLE INSURANCE TRANSPORT HAT HOS CONSULTING ENGINEERS INC. HAS RELIGIOUSLY ONLY OF CHICAGO

THE INSURANT REPRESENTATIONS OF THE TITLE'S CONDITION TO PREPARE THIS SURVEY AND THEREFOR DR. STRONG

CONSULTING ENGINEERS INC. QUALIFIES THE MAP'S ACCURACY AND COMPLETENESS TO THAT EXTENT.

2. THIS SURVEY REPRESENTS VISIBLE PHYSICAL IMPROVEMENT CONDITIONS EXISTING ON JUNE 22, 2011. ALL SURVEY CONTROL INDICATED AS "FOUND" WAS RECOVERED FOR THIS PROJECT IN JUNE, 2011.

3. NO ATTEMPT HAS BEEN MADE PER THIS SURVEY TO DETERMINE THE LOCATION OF THE LATERAL OR OUTWARD BOUNDARIES OF THE SHORELANDS ADJUMING THIS PROPERTY. THE LINE SHOWN ALONG THE SHORELINE WITH BEARNOS AND DISTANCES IS NOT A PROPERTY LINE AND ONLY INDICATES A MAPPING LINE USED TO CALCULATE THE APPROXIMATE AREA OF THE UPLAND PORTION OF THE PROPERTY.

- 4. ALL DISTANCES ARE IN FEET.

5. THIS IS A FIELD TRAVERSE SURVEY. A LEICA FIVE SECOND COMBINED ELECTRONIC TOTAL STATION WAS USED TO MEASURE THE ANOLLAR AND DISTANCE RELATIONSHIPS BETWEEN THE CONTROLLING MONUMENTATION AS SHOWN. CLOSURE RATIOS OF THE TRAVERSE MET OR EXCEEDED THOSE SPECIFIED IN W.C. 323-130-030. ALL MEASURING INSTRUMENTS AND EQUIPMENT ARE MAINTAINED IN ADJUSTMENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

6. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EMDENCE OF THEIR INSTALLATION WISIBLE AT GROUND SURFACE ARE SHOWN HEREON. UNDERGROUND UTILITY LOCATIONS SHOWN AS TRANSPORDMENT ONLY. UNDERGROUNDING CONCERTIONS ARE SHOWN AS STRANGHT LINES BETWEEN SURFACE UTILITY LOCATIONS BUT MAY CONTAIN EDITED OF CURVES NOT SHOWN. SOME UNDERGROUND LOCATIONS SHOWN HEREON MAY HAVE BEEN TAKEN PERSONNERS INCLUDING THE OFFICE STRANGES INCLUDINGES NO LOSARIES NO LOSARIETY FOR THE ACREATY OF PUBLIC RECORDS. DIC. STRONGE CONCLUTING EMORITHES INC. ASSUMES NO LOBARITY FOR THE ACREATY OF PUBLIC RECORDS.

1. THIS SITE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE EASEMENT GRANTED TO EASTGATE SEWER DISTRICT FOR THE PURPOSE OF SEWER MAINS WITH INCCESSARY APPUNTENANCES AS DISCLOSED BY INSTRUMENT RECORDED UNDER RECORDING NUMBER 610419.

2. THIS SITE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE EASEMEN GRANTED TO CITY OF BELLEVUE FOR THE PURPOSE OF STORM DRAINAGE AS DISCLOSED BY INSTRUMENT RECORDED UNDER RECORDING NUMBER 20100817

3. THIS SITE IS SUBJECT TO THE COVENANTS, CONDITIONS, RESTRICTIONS, EASEMENTS, NOTES, DEDICATIONS AND SETBACKS, IF ANY, SET FORTH IN OR DELINEATED ON SAID SHORT PLAT RECORDED UNDER RECORDING NUMBER 770B100914.

5. THIS SITE IS SUBJECT TO THE TERMS AND CONDITIONS OF NOTICE OF CHARGES BY WATER, SEWER, AND/OR STORM AND SURFACE WATER UTILITIES, BY INSTRUMENT RECORDED UNDER RECORDING NUMBER 9612200938.

6. THIS SITE IS SUBJECT TO PARAMOUNT RIGHTS AND EASEMENTS IN FAVOR OF THE UNITED STATES FOR COMMERCE, NAVIGATION, FISHERIES AND THE PRODUCTION OF POWER

7. THIS SITE IS SUBJECT TO MATTERS DISCLOSED BY SURVEY RECORDED UNDER RECORDING NUMBER 9405179006.

LEGEND:

FOUND MONUMENT AS NOTED FOUND CORNER MONUMENT AS NOTED ORDINARY HIGH WATER LATHE PLACED BY OTHERS AND MARKED AS NOTED

ELECTRIC METER

MAILBOX TELEPHONE PEDESTA

WATER METER 0 STORM DRAIN MANHOLE

YARD DRAIN

Received ---- OF ----- OVERHEAD POWER

Permit Process

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ELSOE RESIDENCE

ROGER MACPHERSON DESIGN 6 SE 28TH STREET SH, WASHINGTON 9 206-375-3397

DRS D.R. STRONG CONSULTING ENGINEER

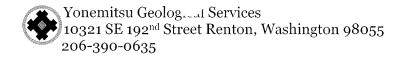
10604 NE 38th PLACE, SUITE 101 KIRKLAND, WA 98033 425.827.3063 OFFICE 800.962.1402 TOLL FREE 425.827.2423 FAX www.dretrong.com



DRAFTED BY: SJS/RLB FIELD BOOK: 692

PROJECT SURVEYOR: RLB DATE: 6/28/11 PROJECT NO.: 11038

SHEET 1 OF 1



August 18, 2011

Mr. Robert Sorenson MacPherson Design and Construction 21626 SE 28th Street Sammamish, WA 98075-7125

Re: Geotechnical Recommendations

Proposed Elsoe Residence 2238 West Lake Sammamish Parkway SE Bellevue, Washington RMP Project No. 11-159-01

Dear Mr. Sorenson,

This report summarizes the results of our geotechnical engineering evaluation of the property located on the west side of Lake Sammamish in Bellevue. It is understood that the new residence will be sited on the lower portion of the property and approximately 70 feet from the edge of the lake.

The purpose of this report is to describe the geologic and subsoil conditions on this site, and to provide geotechnical recommendations for foundation design. A preliminary site plan was provided by your office shows the location of the proposed structure on this lakeside property.

Site Conditions

An existing residence is located on the central portion of the property, and there is an access driveway that leads to the garage on the western end of the site. A new driveway will be graded to reach the garage that will be at the west end of the new two story residence with a partial daylight basement. The ground surface has a moderate slope from the west to east end of the site with a fall in elevation of about 26 feet across the proposed building pad area. Localized steep slopes exist on this site, but there are no unstable areas on the property that require geologic or engineering analyses.

Published USGS geologic mapping for this area of King County was used to confirm subsoil conditions under this site. The property is underlain by dense glacial deposits (Qva) consisting of sands, silty sands and gravel that were exposed in two test borings. These soils will provide excellent support for the proposed residence foundations and basement floor slab.

Subsurface exploration included drilling of two auger borings at the locations shown on the Site Plan. These hand drilled borings encountered topsoil and modified fill soils that were about two feet deep. Below the fill were dense silty sands and sands with gravel that became wet below a depth of about 2.5 feet. Very dense native glacial soils were encountered at five feet in HA-1 and at three feet in HA-2. Refer to the Summary Logs on Appendix A.

Geotechnical Recommendations

Based on the results of our geotechnical evaluation, the dense glacial soils consisting of silty sands and gravels will provide excellent support for the new residence foundations. Foundations on these dense glacial soils can be designed for a bearing value of 3000 psf for footings that are 18 inches deep. Settlement of these footings will be less than ½ inch with a majority of this settlement occurring during construction. For seismic design the site has been classified as "D" since the bearing soils are dense glacially consolidated silty sands and gravel. Temporary seismic loads acting on these structures should be based on a value of 0.40 for the soil conditions underlying this property. There is no liquefaction potential for these dense glacial deposits.

Basement retaining walls should be designed using an active earth pressure of 35 pcf and a passive pressure of 250 pcf. This assumes that the backfill behind these walls is near level. If the walls are restrained an at-rest value of 60 pcf should be used. A friction value of 0.40 may be used for sliding resistance at the base of the proposed footings. Passive and friction values have a safety factor of 1.5 included.

All foundations and retaining walls should have a perforated subdrain placed at the bottom of the footings for subsurface drainage control. These 4 inch perforated pipes should be embedded in drain gravel, covered with geofilter cloth with the backfill placed and compacted over these subdrains in thin lifts.

Concrete basement floor slab should be reinforced to control shrinkage cracking. The basement level of the house will require excavation to reach subgrade elevation of about 43 feet, and these soils will be suitable for direct support of the floor slab. From 2 to 14 feet of excavation will be performed on the north and south sides of the basement that will require temporary slope support. Recommendations can be provided for the use of Ultra-block walls and temporary slope cuts when final plans have been prepared.

Temporary Erosion Control

It is recommended as a precaution for surface water runoff that silt fencing be installed between the east side of the building pad near the lake shore for sediment control during construction. Permanent erosion control will be provided with appropriate landscaping and surface drainage conditions that are included in the design plans for this residential project.

Excavated soils obtained from the basement area of the building pad may be stockpiled onsite for future use as backfill around the retaining walls. These soils may be wet and will require some time to allow for drying back to near optimum moisture levels.

Summary

The conclusions and recommendations presented in this report are based on 1)

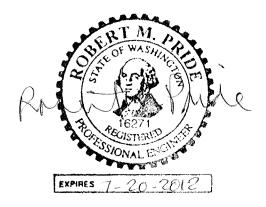
Elsoe Residence 8/18/2011 Page 3

our interpretation and evaluation of soil conditions on this site, 2) confirmation of the actual subsurface conditions encountered during construction, and 3) the assumption that sufficient observation and testing will be performed during the appropriate phases of the work.

Our findings and recommendations in this report were prepared in accordance with generally accepted principles of geotechnical engineering as practiced in the Puget Sound area at the time our work was performed. We make no warranty, either express or implied.

Please call if there are any questions.

Respectfully,



Respectfully,

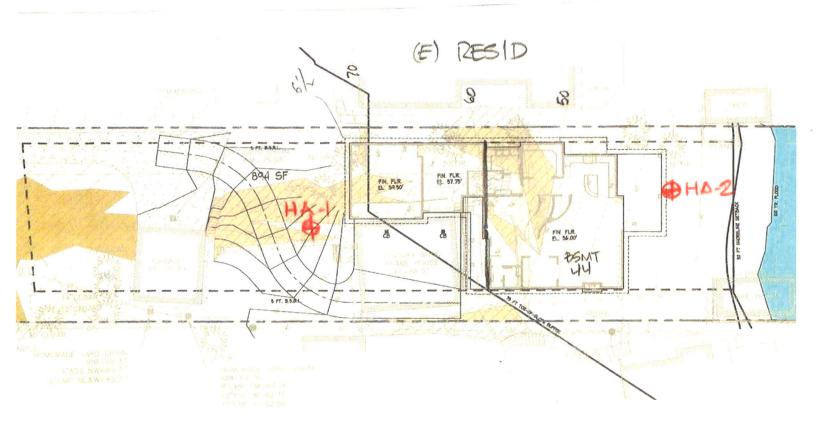
Robert M. Pride, P. E. Principal Geotechnical Engineer

dist: (1) Addressee

rmp: MacPherElsoe1

David Yonemitsu, CEG Principal Engineering Geologist





SITE PL	AN
Proposed Elsoe Residence	Project No. 11-157-01
2238 W. Lake Sammamish Pkwy SE	
Bellevue, Washington	Drawing No. 1
Robert M. Pride, LLC	Consulting Engineer